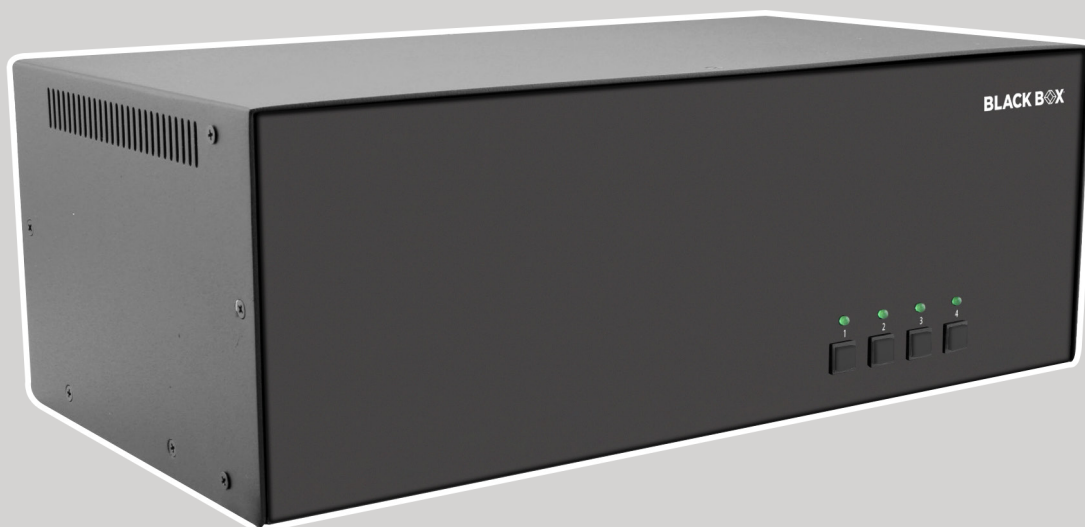KV4402A, KV4404A

DISPLAYPORT™ QUAD-HEAD KVM SWITCHES

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM

BLACK BOX®

OVERVIEW

DISPLAYPORT QUAD-HEAD KVM SWITCH - 2-PORT (KV4402A) AND 4-PORT (KV4404A)

INTRODUCTION

Black Box offers dedicated multi-platform KVM switches capable of managing multiple computers through four DisplayPort™ monitors, one USB keyboard and mouse, a single set of speakers, and a USB 2.0 Device. KV4402A enables you to manage two computers, and KV4404A enables you to manage four computers.

The USB emulation technology utilized by the device enables immediate hotkey source switching through a remote USB keyboard and mouse. It delivers high resolutions of up to 4K with zero pixel loss from TMDS signal correction. Both models offer resolutions of 3840x2160 @ 60Hz with high-quality DisplayPort cables and 3840x2160 @ 30Hz with low-quality DisplayPort cables.

- Source switching made easy: KV4402A and KV4404A provide a simplified management approach to up two computers or four computers, respectively, with DisplayPort, stereo audio, and USB 2.0 outputs. This dynamic KVM console can be controlled remotely from easily accessible keyboard hotkeys or RS-232 commands, as well as directly through the console's easy-to-read front panel.

- EDID learning & programming: Detection of DDC signals for all attached devices is effortless with both device models due to their real EDID learning and programming. This is vital in optimizing the resolution of the selected graphics card to properly display on the remote monitor.

- Full USB keyboard and mouse emulation: For both models, the USB keyboard and mouse emulation provides accurate and quick source switching by means of keyboard hotkeys and mouse actions. It imitates the presence of a keyboard and mouse for every attached computer through a USB cable. This is essential as it simulates the existence of the keyboard and mouse to all the computers while switching without interruptions.

FEATURES

- Supports up to 4K (3840 x 2160) @ 60 Hz with high-quality DisplayPort cables and up to 4K (3840 x 2160) @ 30 Hz with low-quality DisplayPort cables.
- Supports 3D
- Supports LPCM, Dolby-AC3, DTS7.1, and DSD/Dolby TrueHD/DTS-HD master audio
- Supports DisplayPort1.2a
- Control up to two quad-head computers with a single KVM with KV4402A and control up to four quad-head computers with a single KVM with KV4404A
- Zero pixel loss with TMDS signal correction
- Supports USB keyboard-mouse emulation
- Supports all USB 2.0 devices
- Uses hotkey commands for quick channel selection
- Independent (asynchronous) switching of KVM and peripheral USB ports, enabling functions such as scanning a document and saving it on a different computer.
- Complete KVM emulation for error-free booting
- Easy switching via front-panel, RS-232, or hotkeys
- Full DisplayPort support with backward compatibility

PHOTOS/WHAT'S INCLUDED/SPECIFICATIONS

DISPLAYPORT QUAD-HEAD KVM SWITCH - 2-PORT (KV4402A) AND 4-PORT (KV4404A)

KV4402A Front Panel	KV4402A Back Panel	KV4404A Front Panel	KV4404A Back Panel

WHAT'S INCLUDED WITH KV4402A

- (1) DISPLAYPORT™ QUAD-HEAD KVM SWITCH - 2-PORT
- (1) 12VDC, 3A POWER ADAPTER
- (1) POWER CORD

WHAT'S INCLUDED WITH KV4404A

- (1) DISPLAYPORT QUAD-HEAD KVM SWITCH - 4-PORT
- (1) 12 VDC, 3A POWER ADAPTER
- (1) POWER CORD

SPECIFICATIONS

DISPLAYPORT QUAD-HEAD KVM SWITCH - 2-PORT (KV4402A) AND 4-PORT (KV4404A)

KV4402A AND KV4404A COMPARISON CHART		
FEATURE	**KV4402A**	**KV4404A**
VIDEO		
LINK RATE	5.4 Gbps/lane	
INPUT INTERFACE	(8) DisplayPort1.2a female	(16) DisplayPort1.2a female
OUTPUT INTERFACE	(4) DisplayPort1.2a female	
RESOLUTION	Ultra-HD 4K (3840 x 2160) @ 60 Hz with high-quality DisplayPort cables; otherwise 3840 x 2160 @ 30 Hz	
INPUT EQUALIZATION	Automatic	
VIDEO BANDWIDTH	300 MHz, 10.2 Gbps	
HDCP COMPLIANT	Yes	
INPUT/OUTPUT MAX. CABLE LENGTH	20 ft. (6.2 m) (depending on cable quality)	
AUDIO		
INPUT INTERFACE	(2) 3.5-mm stereo audio jack	(4) 3.5-mm stereo audio jack
OUTPUT INTERFACE	(1) 3.5-mm stereo audio jack	
FREQUENCY RESPONSE	20 Hz to 20 KHz	
COMMON MODE	Rejection @ 60 dB	
NOMINAL LEVEL	0.0 to 1.0 V	
CONTROL		
FRONT PANEL	(2) Computer LEDs, (1) Activity button	(4) Computer LEDs, (2) Activity buttons
RS-232	3.5mm jack, (TRS) 115200 bps, N, 8 1, No flow control	DB9 female, 115200 bps, N, 8 1, No flow control
HOTKEYS	Via keyboard	
EMULATION	Keyboard, Video, and Mouse	
USB		
SIGNAL TYPE	USB 2.0, 1.1, and 1.0 with internal hub	
INPUT INTERFACE	USB Type B (female)	(4) USB Type B (female)
DEVICE INPUT INTERFACE	(2) USB 1.1 Type A (female) for keyboard-mouse; (2) USB 2.0 Type A Transparent	
OTHER		
OPERATING TEMPERATURE	23 to 95° F (-5 to +35° C)	
STORAGE TEMPERATURE	-4 to +185° F (-20 to +85° C)	
OPERATING HUMIDITY	5 to 90% RH, non-condensing	
POWER	External 100-240 VAC/12 VDC, 3A	
DIMENSIONS (H X W X D)	4" x 4.3" x 6.4" (10.1 x 11 x 16.3 cm)	4.5" x 6.7" x 12.8" (11.4 x 16.9 x 32.6 mm)
WEIGHT (PRODUCT ONLY)	2.2 lb. (1 kg)	5.5 lb. (2.5 kg)
APPROVALS	UL, CE, ROHS Compliant	

ORDERING INFORMATION

DISPLAYPORT™ QUAD-HEAD KVM SWITCH

ITEM	CODE
Quad-Monitor, DisplayPort, USB True Emulation, Audio, 2-Port	**KV4402A**
Quad-Monitor, DisplayPort, USB True Emulation, Audio, 4-Port	**KV4404A**
Spare Power Supply	**KV4-PS**

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ABOUT BLACK BOX

Black Box® is a trusted IT solutions provider delivering cutting-edge technology products and world-class consulting services to businesses across the globe in every industry. The breadth of our global reach and depth of our expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems.

NOTES

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